## IN THE CLAIMS:

1. (currently amended) In a processor having a register file comprising a plurality of registers and a broadcast specifier corresponding to the register file, a method comprising: providing storage circuitry which stores the broadcast specifier, the broadcast specifier comprising a plurality of broadcast indicators, each broadcast indicator within the plurality of broadcast indicators corresponding to one of the plurality of registers and indicating whether or not a write to the corresponding register is to be broadcasted via the a coprocessor communication bus; receiving an operand to be written to said register file;

receiving an operand to be written to said register file;
selecting one of said plurality of registers in said register file;
providing to said register file said operand to be written to said register file; and
selectively providing via said coprocessor communication bus said operand to be written
in said register file based on the broadcast specifier, wherein said operand is
provided to said coprocessor communication bus when the broadcast indicator
corresponding to the selected one of said plurality of registers indicates that
broadcasting is enabled and said operand is not provided to said coprocessor
communication bus when the broadcast indicator corresponding to the selected one
of said plurality of registers indicates that broadcasting is not enabled.

## 2-3 (cancel)

- 4. (original) The method of claim 1, wherein the broadcast specifier is one of a plurality of broadcast specifiers within the processor, each of the plurality of broadcast specifiers corresponding to at least one broadcast region of the processor.
- (original) The method of claim 4, further comprising: selectively providing, via said coprocessor communication bus, a region indicator corresponding to a current broadcast region of a current write transaction.

## 6-8 (cancel)

 (currently amended) In a processor having a register file comprising a plurality of registers a method comprising:

receiving an operand to be written to said register file;
selecting one of said plurality of registers in said register file;
providing to said register file said operand to be written to said register file; and
selectively providing via said a coprocessor communication bus said operand to be
written in said register file based on a current execution region of said processor,
wherein the current execution region corresponds to a range of instruction addresses
in which a current address indicated by a program counter of the processor falls,
and wherein selectively providing comprises:

determining whether broadcast is enabled for the current execution region, and if broadcast is enabled for the current execution region, providing said operand via said coprocessor communication bus, and if broadcast is not enabled for the current execution region, not providing said operand via said coprocessor communication bus.

(previously presented) A processor, comprising:

a plurality of registers;

circuitry for performing a write operation to one of the plurality of registers; conductors for providing an operand for the write operation to said one of the plurality of registers;

storage circuitry which stores a set of broadcast specifiers, each broadcast specifier
within the set of broadcast specifiers comprising a plurality of broadcast indicators
wherein each broadcast indicator corresponds to a register of the plurality of
registers and indicates whether or not a write to the corresponding register is to be
broadcasted:

compare circuitry for comparing the one of the plurality of registers and a corresponding broadcast indicator within a selected one of the broadcast specifiers and for providing a broadcast enable signal, wherein the broadcast enable signal enables broadcasting when the corresponding broadcast indicator indicates broadcasting for the one of the plurality of registers and the broadcast signal does not enable broadcasting when the corresponding broadcast indicator does not indicate broadcasting for the one of the plurality of registers; and

a port, coupled to the compare circuitry, for communicating with a coprocessor communication bus, said port comprising at least one coprocessor communication bus signal for providing said operand when said broadcast enable signal enables broadcasting and not providing said operand when said broadcast enable signal does not enable broadcasting.

11-12. (cancel)

- 13. (original) The processor of claim 10, further comprising:
  - a program counter unit, for indicating address locations; and
  - a broadcast region control unit, coupled to the program counter unit, for indicating when the indicated address location from the program counter unit falls within one of a set of broadcast regions.
- 14. (original) The processor of claim 13, wherein the port further comprises at least one coprocessor communication bus signal indicating a current broadcast region from the set of broadcast regions when the indicated address location falls within one of the set of broadcast regions.
- 15. (original) The processor of claim 13, wherein the broadcast region control unit comprises a plurality of region storage devices, wherein each broadcast region within the set of broadcast regions has a corresponding region storage device.
- 16. (original) The processor of claim 15, wherein each region storage device comprises an upper bound storage device and a lower bound storage device to define each broadcast region.
- 17. (original) The processor of claim 15, wherein each region storage device comprises a base location storage device and a mask storage device to define each broadcast region.

- 18. (previously presented) A processor, comprising:
  - a plurality of registers;
  - circuitry for performing a write operation to one of the plurality of registers;
  - conductors for providing an operand for the write operation to said one of the plurality of registers;
  - a program counter unit, for indicating address locations;
  - an execution region control unit, coupled to the program counter unit, for indicating when the indicated address location from the program counter unit falls within one of a set of execution regions, each execution region indicating a range of instruction addresses; and
  - a port, coupled to the execution region control unit, for communicating with a coprocessor communication bus, said port comprising at least one coprocessor communication bus signal indicating a current execution region from the set of execution regions when the indicated address location falls within one of the set of execution regions.
- 19. (original) The processor of claim 18, wherein said port further comprises:
  - at least one coprocessor communication bus signal for selectively providing said operand to be written to said one of the plurality of registers during said write operation based on the current execution region.
- 20. (original) The processor of claim 18, wherein the execution region control unit comprises a plurality of region storage devices, wherein in each execution region within the set of execution regions has a corresponding region storage device for defining the execution region.
- 21. (previously presented) The method of claim 4, wherein the at least one broadcast region corresponds to a range of instruction addresses.